Collection no. 176
J. Balderson

GLAMIS

DUPLICATE
Western District of Papua
Dauan Is.
CARBON BOOK
(Octavo Size)

10.ix. – 6.x. 1972

100 Leaves in Duplicate

NUMBERED

Flexiflat
THERMO–PLASTIC BOUND

Collection no. 176 — Western Dist., Papua
Daru Is.

J Balderson
10.ix.–6.x.1972

Western District extremely dry; water restrictions at Morehead, Fly R. closed for navigation; rainfall figures for all months except April well below average; Morehead airstrip almost bare earth; very dense smoke from Daru to Morehead; many fires seen

10/9/1972

Morning. Cycled to plain c 1 mi S. of Morehead; no surface moisture at
Acrida conica, Gonista vocans
all; top layer of soil dry – cracked
vitrifying
large areas burnt. Stenocatantops is only common species. A. guttulosa also seen
Large acridoid (?Austracris ♀) seen

Afternoon Collected river bank at
Acrida conica, Austracris proxima,
Morehead – upstream. Some patches of lush
Atractomorpha similis, Caliphorus viridis,
grasses. Many small Tetrigids. Much
Rectitropis sp., Aiolopus thalassinus, Caledia
clearing for gardens by locals since 1971.
sp. 1, Heteropternis obscurella, Oxya japonica,
Returned via village. Too dry for Tetrigids.
Distichopterella explicata

11/9

#5069 Morehead, took Mata road

075 Monsoon rainforest; followed
Calidia sp. 1,
track to left for c 500 yds; very dry;
no surface moisture; trackside seedlings
dieing. Also collected c ½ mile in
both directions along road. Return.

076. Similar to previous stop. Followed
track to left. Draitsman reported
seeing 7-8 grasshoppers on single leaf c 2' high
(broad) at this site c 10 days before;
his description seems to tally
exactly with Birsella sp. taken on
previous trip. ? Villemsia nymph
taken c 4' high, ~~shrub~~ or seedling in trackside

Bright green blue nymph taken at
above 2 stops shows similar defence mechanism
to Aripega, viz, shows brilliant yellow
fleshy collar between head & pronotum.

Afternoon Collected river bank downstream from
Caliphoropz viridis
Morehead. Similar grasses as for upstream
but very poor for Acridoids.

12/19

Truck reconnaissance trip to Weam

49724.0 Morehead

728.3 Rouku

734.2 Tokwa

738.2

740.9 – 741.7

745.2 Tokwa

746.2 v. good but burnt

746.6

748.3

749.2 *

750.7

755.1 Indorosa

760.3

761.3 Kandarisa

767.7

768.4 Weam

Some excellent country between Tokwa & Indorosa but practically

whole bloody road burnt this
dry season, some parts twice.
Kandarisi to Weam c. 40 miles.
Apart from localities given, a
few small spots between lokwa
& Tokwa probably worth investigating.
Total time for trip (1 way): 3¾ hrs.

Walked back c. 4 miles from
Weam collecting both sides of road. Open
Erythropomala amaena (J.), Acrida conica,
Banksia & eucalypt woodland; trees to
Goniaea vocans, Calidia captiva; Heteropternis
20'; mixed grasses (no kunai) &
obscurella, Rectitropis sp., Gastrimargus musicus,
Restionaceae / Cyperaceae; some Sinoga;
Stenocatantops vitripennis, Oxya japonica
light coloured clay soil; seems to be
affected by moisture in wet season
but some slope

13/9.

@ W. end of airstrip, track off road
to left c. 300 yds past P.W.D. compound
Heteropternis obscurella
mixed grasses (kunai & 3-awned speargrass
& stunted Eucs. regrowth but nearly
all burnt, track ran down into large

swamp with tall Melaleuca forest;
bone dry, Crossed swamp but
more Melaleuca beyond. Steno. vitripennes & Heteropternis

② = 35076 of 10/9. Searched
path & roadway on either side for 1 mile
on Mata side for Biroella & Willemsia.
No sign of either.

③ Line of shot holes shown on
air photo c 2 miles SSE. of Morehead,
visited by Haffliger with Wraithman.
Very thick Sinapa but grading into Banksia
& Euc. woodland & ? Euc/Acacia forest.
Apart from Steno. vitripennes, completely
barren for c all insect life.

④ Plain E. of airstrip. Approached
Austragcris proxima, Calidia captiva,
by path c 1 mile from Morehead along
C. sp. 1, Heteropternis obscurella, Rectitropis
Mata road. Creeks & plains completely
sp.
dry; much burnt. Grey soil broken into
very small rough hummocks; very
awkward walking. All communities
of 1971 trip sampled.

6

(5) Rainforest c̲ 1 mile E of Morehead on Mata road. Several approaches by paths thro' native
Willemsia bimaculata (j.), Dicranopterella explicata
gardens. One adult Birolla seen on Pandanus but the thing jumped before being netted. 4 ?Willemsia nymphs taken; attempting to culture 3; possibly Pandanus feeders, tho' definitely observed feeding on broad leafed seedling on Monday.

14/9

Truck reconnaisence trip to Mari (on coast)

19834.3 Morehead
838.4 – 842.0 Banksia-Euc woodland
844.9 Mibini
853.4 Tonda (deserted)
858.3 road off right to Jaimi
861.5 ; collect
874.0 Pandanus swamp for ½ mile
878.6 Mari
Return

First 8-10 miles from Morehead well worth thorough investigation. Then long stretches of tall Melaleuca dried swamp with c no ground cover. Several small patches of Euc/Acacia/Banksia woodland with some grasses & a few small patches of rainforest in last 15 miles possibly worth a look. Some swamp almost like Melaleuca dominant rainforest. Big pandanus swamp near coast possibly worth a look tho' much of it burnt; also coastal belt (c 2 miles wide). Country between Mibini & Tonda c completely burnt but doesn't appear to have been worth collecting.

15/9

5126. Morehead

134. Mata; road angling off to left to Suki

136

140

141 Rongai (map spelling prob. quite wrong)

142

144 Derideri; road off to left to Gabam

147

148

Stenocatantops vitripennis

150 Amufi

Time (one way): 1½ hours

Several possible collecting sites listed above. Poor rainforest except for near Mata. Large stretches of tall forest with Imperata only, much burnt. Nipa + tall forest to river's edge at Amufi.

151 Clearing by roadside running to
Oxaya japonica, Acrida conica
poor rainforest; Pandanus, Banksia, Acacia, Sinope, Euc., native grasses.

Steno vitripennis, Heteropternis

153 Banksia grass/sedge plain
Calidia captiva
(large) bordered by Euc/Acacia

forest with some Melaleuca. Heavy grey clay soil. Some evidently burnt early in dry season.

16/4

A.M

181 Morehead

189 Mata

191 Sedge plain / dry swamp with some grasses & low pandanus; bordered with Banksia, Acacia sp., some Melaleuca, Sinoga, grading into tall forest / rainforest. Steno. vitripennis

192 Further end of same plain; same veg.; waders

193 Road passes thro' newly cleared rainforest; no Acridoidea

194 Mata

195 ? Site of Biroella collect in 71, no joy.

200 Site of myrmecophilous Mantid collect of 1971; searched road ≃ ¼ mile each way. Also ants,

[illegible]
[illegible]
[illegible] sp. 1, [illegible] [illegible],
[illegible] [illegible]
[illegible]
[illegible]

[illegible]

13/11

P.M.

[illegible] [illegible], [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible]

21. [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible], [illegible]. [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
to small open [illegible] on [illegible]
dry [illegible]. No Acacia.

214 All [illegible] between 213 & 214. [illegible]
[illegible] slight rise above scattered
[illegible] dry [illegible]. [illegible]
Banksia & Acacia; [illegible] [illegible]

[illegible]

[illegible] void inside the [illegible]

[illegible]
Callidina co[illegible], Heterophenia
[illegible]
obscurella, Co[illegible] sp.1, [illegible] sp.2
[illegible]
[illegible], [illegible]
[illegible]

[illegible]

13/[illegible]

[illegible]

[illegible]

[illegible]
[illegible] sp.1, [illegible]hepis sp.(?)
[illegible]

[illegible], O.q.1
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

097.2 [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

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[illegible]

[illegible]

[illegible]

[illegible] Calidia Captiva

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] [illegible] [illegible] [illegible] [illegible] of [illegible] caprina, [illegible], [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] sp., Calif. [illegible], [illegible] [illegible] in general [illegible] [illegible] [illegible], [illegible], [illegible], [illegible] [illegible] [illegible] [illegible]. [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] additional [illegible] [illegible], [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

[illegible]

[illegible] to 5[illegible] [illegible] [illegible]
Acrida conica, [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] musicus, [illegible] [illegible] [illegible] [illegible] Track [illegible] 5 [illegible] [illegible] [illegible] [illegible] [illegible] of [illegible] Willemsia [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible] [illegible]

probably [illegible] [illegible] of [illegible]

[illegible] [illegible] [illegible]
[illegible] no. [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible], [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] of [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible]

5273 [illegible] . [illegible] [illegible]
5[illegible] [illegible] [illegible] [illegible] [illegible]
5297 [illegible]
5[illegible] [illegible] ([illegible])
Culicidae sp. 1, C. [illegible], Oxya sp. 1,
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] (j.), [illegible] sp.,
[illegible] [illegible] ([illegible] [illegible])
Stenocatantops angustifrons, Heteropternis
[illegible] [illegible] [illegible] [illegible]
[illegible], Atractomorpha similis
[illegible] [illegible] [illegible] [illegible]

Return

5309 W. edge of extensive [illegible] /
Stenocatantops sp.
Oxya japonica [illegible] [illegible]
[illegible]
[illegible] with some [illegible]
[illegible] [illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible]
Val[illegible] in [illegible], Co[illegible], [illegible],
[illegible]
20 [illegible] (§). [illegible], Rid, [illegible]
[illegible]
[illegible] in [illegible]. D[illegible]
[illegible]

531 Graban

[illegible] [illegible]

[illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible]
Gas. trinarques musicus, S[illegible]
[illegible] 1770 [illegible]
[illegible], Gonaca vocans, Cal[illegible],
[illegible]
[illegible], Ha, [illegible] Comica,
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible] y [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible]

[illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible]

[illegible] [illegible]

5417 Mari : [illegible]

5421 [illegible] of [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible]
[illegible] [illegible]

[illegible]

[illegible] [illegible] [illegible]
[illegible] captiva, C. 40.1
[illegible] [illegible]; [illegible]
[illegible] [illegible] [illegible]

[illegible] [illegible] [illegible] [illegible]

Oxaea flavescens, [illegible]
[illegible]

[illegible]

[illegible]

[illegible] [illegible]
[illegible] sp.
[illegible]

[illegible]

[illegible]
Colletes sp. 1
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]
Colletes cognata, [illegible],
[illegible]
[illegible], [illegible]
[illegible] feeding on. [illegible]

[illegible] Small insect [illegible]
Oxaea flavescens, O. sp. 1

[illegible]
Colletes sp. 1
[illegible]

[illegible]

[illegible]

{Dnomopterinae sp. [illegible]
{Heteropternus obscurella, Rectitropis sp., [illegible]
[illegible]dia sp. 1, Atractomorpha similis,
[illegible] proxima, Oxya sp. 1, O. japonica,
[illegible] Locusta sp.

[illegible]
Rectitropis sp., Caledia captiva
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Stenocatantops vitripennis, Caledia captiva,
[illegible]
[illegible], Heteropternus obscurella, Oxya japonica, Rectitropis sp. (?)
[illegible]

[illegible]

1½ mile [illegible]
Stenocatantops vitripennis, Acrida sp., Gesonula mundata, Oxya japonica, Rectitropis sp.
[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Calidia captiva, Heteropternis [illegible], Oxya japonica.

[illegible]

[illegible], Oxya japonica.

[illegible]

Oxya japonica, Atractomorpha [illegible]

[illegible]

[illegible]

Oxya japonica, O. sp. 1, Calidia sp. 1

[illegible]

Goniaea [illegible], [illegible] atripennis,

Acrida [illegible], Calidia captiva, Oxya japonica,

Heteropternis [illegible]

[illegible] sp., [illegible], [illegible], Oxalis japonica, [illegible], Microtona sp. 21.

[illegible]

Callicarpa japonica ↓

Oxya japonica, [illegible] sp.

[illegible]

[illegible]

[illegible]
Stenocatantops vitripennis, S. angustifrons,
[illegible]
[illegible]tropis sp., Oxya japonica, [illegible]
[illegible]
[illegible], Valanga [illegible]
[illegible]

[illegible]

[illegible]

[illegible]
[illegible]tropis sp., Stenocatantops angustifrons,
[illegible]
Oxya japonica,
[illegible]

[illegible] Cadman hill [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]
Oxya japonica, [illegible]tropis sp., [illegible]
[illegible]
[illegible], [illegible], Stenocatantops
[illegible]
angustifrons, Acrida conica, ~~[illegible]~~
~~[illegible]~~

Acrida sp. 1, Pachyteopsis sp., Atractomorpha similis, Catantops [illegible], Heteropternis obscurella, [illegible], Oxya japonica, Stenocatantops angustifrons; [illegible] cat.

Pachyteopsis sp., [illegible]

Atractomorpha similis, Pachyteopsis sp., [illegible], Stenocatantops [illegible], Heteropternis obscurella, Oxya japonica (?), Valanga nigricornis, Xenocatantops [illegible],

[illegible] angustifrons, [illegible], Heteropternis obscurella, Oxya japonica, Atractomorpha similis, Valanga nigricornis, Pachyteopsis sp.

Altimeter height for peak 920 [illegible]

boulders many shafts + crevices that may harbour other orders; very little soil but often deep leaf mould

5/10

A.M. Crossed point + worked N side of island. Coastal strip narrower (≈ 400 yds.) before rising steeply into granite + stone boulders nearer to beach. collected on way out + those at the foot of the hill collected on way back. Similar habitat to yesterday but not as rich in Acridids

Valanga nigricornis, Austracris guttulosa, Pycnostictus seriatus, Heteropternis obscurella, Stenocatantops vitripennis, Oxya japonica, Atractomorpha similis, Rectitropis sp., Stenocatantops angustifrons

P.M. ① sandy grasses running down to dry marsh + mangrove W of main plain. Seemed typical dune grasses + sedges. Pycnostictus but otherwise no joy. ② Concentrated on lush stands of Ophiuros ('Rottbelum') growing along watercourses ~~around~~ crossing main plain + around gardens

①+②: Heteropternis obscurella, Pycnostictus seriatus, Atractomorpha similis, Rectitropis, Valanga nigricornis, Desmopterella explicata

Valanga irregularis

Malorduwan. 1 Austracris ♀ found by child in village. Arrived too late to collect further.

6/10 Calephorops viridis, Heteropternis obscurella,

Searched beach front & neighbouring

Calidia captiva, Acrida conica, Austracris

grasses for Pycnostictus: no sign. Short

proxima, A. guttulosa, Rectitropis sp.

time spent aided by village children chasing Austracris in kunai flats E. & N. of hill.

General

Morehead & surrounding area collected has had 2 exceptionally wet "wet seasons" comparatively little burning by locals was possibly during the intervening dry seasons. The current dry season has been exceptionally dry — no rainfall at all being recorded for [illegible]

[illegible] is [illegible] for years since 1965

for August & Sept. Very little of the grassland or forest has escaped burning; many areas have been burnt twice. Acridoids would seem fairly definitely to have been absent — in many instances 5 people were collecting. Only reservation is re Rauki-Wiau road tho much of this was collected intensively & much of the accessible grassland had been burnt. A later trip would have meant even more burnt country.

Abostiwan is pleasant trip biologically but unsatisfactory for Acridoids because of the lack of habitats.

Warren is the only place visited where Acridoids (3 all spp.) were abundant. Other similar sites would be well worth investigating

RAINFALL MAREHEAD

	J	F	M	A	M	J	J	A	S	O	N	D	Total
1969	1710	443	1243	586	20	479	155	57	256	99	91	572	5708
1970	740	1212	1771	656	347	444	188	121	214	1062	758	1053	8576
1971	714	1171	1005	857	692	388	648	172	530	487	305	209	7142
1972	574	607	564	709	99	67	1	0					

NB. Millinsca
nymphs are
gregarious.

See p. 29 for
ant - mimicking
mantid notes